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### ABSTRACT OF THE DISCLOSURE

A system for dispersing rock dust into the air ventilation passages of an underground coal mine having an air ventilation pattern wherein fresh air is pumped from outside of the mine into the mine thru fresh air passageways leading to the mine work faces and wherein the contaminated air is forced out of the mine thru contaminated air return passageways, the system having a tank for containing rock dust, a ventilation air feed conduit communicating with the interior of the tank, an air-dust mixture discharge port in the tank and adapted to be placed in communication with the return passageways, and a dehumidifier unit communicating with the ventilation air feed conduit for maintaining the feed air at a humidity level sufficiently low to prevent rock dust in the tank from agglomerating.

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